



PTO/SB/08A (08-03)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/605,452
				Filing Date	September 30, 2003
				First Named Inventor	William G. Kerr
				Art Unit	1634 1632
				Examiner Name	Joanne Hama
Sheet	1	of	6	Attorney Docket Number	USF-211XT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JH	U1	US-10/709,801	05-28-2004	Despots et al.	All
	U2	US-10/904,667	11-22-2004	Kerr et al.	All
	U3	US-2002/0137711 A1	09-26-2002	Kerr	All
	U4	US-2002/0165192 A1	11-07-2002	Kerr et al.	All
	U5	US-2004/0072298 A1	04-15-2003	Sauvageau et al.	All
	U6	US-4,603,112	07-29-1986	Paoletti et al.	All
	U7	US-4,769,330	09-06-1988	Paoletti et al.	All
	U8	US-4,777,127	10-11-1988	Suni et al.	All
	U9	US-5,017,487	05-21-1991	Stunnenberg et al.	All

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JH	F1	WO 89/01973 A2	03-09-1989	Applied Biotech. Inc.	All	
	F2	WO 91/02805 A2	03-07-1991	Viagene, Inc.	All	
	F3	WO 92/06693 A1	04-30-1992	Fox Chase Cancer Ctr.	All	
	F4	WO 97/10252 A1	03-20-1997	Fred Hutchinson Cancer Research	All	
	F5	WO 97/12039 A2	04-03-1997	Krystal	All	
	F6	EP 0 345 242 A2	12-06-1989	Smithkline Biologicals	All	

Examiner Signature	<i>Joanne Hama</i>	Date Considered	7/28/05
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gth	U10	US-5,166,057	11-24-1992	Palese et al.	All
↓	U11	US-6,025,198	02-15-2000	Bennett et al.	All
	U12	US-6,090,621	07-18-2000	Kavanaugh et al.	All
↓	U13	US-6,703,215	03-09-2004	Erneux	All
	U14	US-			
	U15	US-			
	U16	US-			
	U17	US-			
	U18	US-			

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gth	F7		EP 0 440 219 A1	08-07-1991	Schwiz, Serum- & ImpfInstitut Bern	All
↓	F8		GB 2 200 651	08-10-1988	Khalaf Al-Sumidale	All
	F9					
	F10					
	F11					
	F12					

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JH	R1	AGRAWAL, S. "Antisense oligonucleotides: towards clinical trials" <i>TIBTECH</i> , 1996, 14:376-387.	
	R2	AGRAWAL, S. and KANDIMALLA, E. "Antisense therapeutics: is it as simple as complementary base recognition?" <i>Molecular Med. Today</i> , 2000, 6:72-81.	
	R3	AKAGI, K. <i>et al.</i> "Cre-mediated somatic site-specific recombination in mice" <i>Nucleic Acids Res</i> , 1997, 25(9):1766-1773.	
	R4	BENDER, M.A. <i>et al.</i> "Description and targeted deletion of 5' hypersensitive site 5 and 6 of the mouse β -globin locus control region" <i>Blood</i> , 1998, 92:4394-4403.	
	R5	BRAASCH, D.A. and COREY, D.R. "Novel antisense and peptide nucleic acid strategies for controlling gene expression" <i>Biochemistry</i> , 2002, 41(14):4503-4510.	
	R6	BRANCH, A. "A good antisense molecule is hard to find" <i>Trends in Biochem.</i> , 1998, 23:45-50.	
	R7	CANTLEY, L.C. <i>et al.</i> "Oncogenes and signal transduction" <i>Cell</i> , 1991, 64:281-302.	
	R8	CHIRILA, T. <i>et al.</i> "The use of synthetic polymers for delivery of therapeutic antisense oligodeoxynucleotides" <i>Biomaterials</i> , 2002, 23:321-342.	
	R9	CROOKE, S.T. "Basic principles of antisense therapeutics" in <i>Antisense Res. and Application</i> , chapter 1, pgs 1-50, S. Crooke, Ed., Springer-Verlag, 1999.	
	R10	DESPONTS, C. <i>et al.</i> "MHC class I inhibitory receptors on natural killer cells recruit SHIP in an attempt to control cell survival" <i>FASEB Journal</i> , March 20, 2002, 16(4):A706, abstract.	
	R11	EVANS, D.J. <i>et al.</i> "An engineered poliovirus chimaera elicits broadly reactive HIV-1 neutralizing antibodies" <i>Nature</i> , 1989, 339:385-388.	
	R12	FISHER-HOCH, S.P. <i>et al.</i> "Protection of rhesus monkeys from fatal Lassa fever by vaccination with recombinant vaccinia virus containing the Lassa virus glycoprotein gene" <i>PNAS</i> , 1989, 86:317-321.	
	R13	GEWIRTZ, A.M. <i>et al.</i> "Facilitating oligonucleotide delivery: Helping antisense deliver on its promise" <i>Proc. Natl. Acad. Sci. USA</i> , 1996, 93:3161-3163.	

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		Examiner Name	Joanne Hama		
Sheet	4	of	6	Attorney Docket Number	USF-211XT

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
gh	R14	GHANSAH, T. <i>et al.</i> "A role for the SH2-containing inositol phosphatase in the biology of natural killer cells and stem cells" <i>Activating and Inhibitory Immunoglobulin-like Receptors</i> , 2001, pp. 129-140.	
	R15	GHANSAH, T. <i>et al.</i> "Target disruption of Src homology 2-containing 5' inositol phosphatase (SHIP) alters PI3K/AKT and MAPK signal transduction pathways in murine natural killer cells" <i>FASEB Journal</i> , March 20, 2002, 16(4):A706, abstract.	
	R16	GHANSAH, T. <i>et al.</i> "The Src homology 2 containing inositol phosphatase is vital for the function and homeostatis of Natural Killer cells" <i>FASEB Journal</i> , March 7, 2001, 15(4):A655, abstract.	
	R17	GUZMAN, R.J. <i>et al.</i> "Molecular and cellular cardiology/receptors: efficient and selective adenovirus-mediated gene transfer into vascular neointima" <i>Circulation</i> , 1993, 88(6):2838-2848.	
	R18	HAWKINS, P.T. <i>et al.</i> "Platelet-derived growth factor stimulates synthesis of PtdIns(3,4,5)P ₃ by activating a PtdIns(4,5)P ₂ 3-OH kinase" <i>Nature</i> , 1992, 358:157-910.	
	R19	HELD, W. <i>et al.</i> "Transgenic expression of the Ly49A natural killer cell receptor confers class I major histocompatibility complex (MHC)-specific inhibition and prevents bone marrow allograft rejection" <i>J. Exp. Med.</i> , 1996, 184(5):2037-2041.	
	R20	HELGASON, C.D. <i>et al.</i> "Homeostasis and regeneration of the hematopoietic stem cell pool are altered in SHIP-deficient mice" <i>Blood</i> , 2003, 102(10):3541-3547.	
	R21	HUBER, M. <i>et al.</i> "The src homology 2-containing inositol phosphatase (SHIP) is the gatekeeper of mast cell degranulation" <i>Proc. Natl. Acad. Sci. USA</i> , 1998, 95(19):11330-11335.	
	R22	JEFFERSON, A.B. <i>et al.</i> "Properties of type II inositol polyphosphate 5-phosphatase" <i>J. Biol. Chem.</i> , 1995, 270(16):9370-9377.	
	R23	JOLLY, D. <i>et al.</i> "Viral vector systems for gene therapy" <i>Cancer Gene Therapy</i> , 1998, 1(1):51-64.	
	R24	KASS-EISLER, A. <i>et al.</i> "Quantitative determination of adenovirus-mediated gene delivery to rat cardiac myocytes in vitro and in vivo" <i>PNAS</i> , 1993, 90:11498-11502.	
	R25	KERR, WILLIAM G. <i>et al.</i> , Critical Role for SHIP in engraftment of histo-incompatible stem cells, <i>Oncology Research</i> , 2001, 12:285.	
	R26	KLIPPEL, A. <i>et al.</i> "Membrane localization of phosphatidylinositol 3-kinase is sufficient to activate multiple signal-transducing kinase pathways" <i>Mol. Cell. Biol.</i> , 1996, 16(8):4117-4127.	

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GH	R27	KOH, C. <i>et al.</i> "Augmentation of antitumor effects by NK cell inhibitory receptor blockade in vitro and in vivo" <i>Blood</i> , 2001, 97(10):3132-3137.	
	R28	KOLLS, J. <i>et al.</i> "Prolonged and effective blockade of tumor necrosis factor activity through adenovirus-mediated gene transfer" <i>PNAS</i> , 1994, 91:215-219.	
	R29	LANIER, L.L. "NK cell receptors" <i>Annual Rev of Immunology</i> , 1998, 16:359-393.	
	R30	LIU, Q. <i>et al.</i> "SHIP is a negative regulator of growth factor receptor-mediated PKB/Akt activation any myeloid cell-survival" <i>Genes & Dev.</i> , 1999, 13(7):786-791.	
	R31	LIU, Q. <i>et al.</i> "The inositol polyphosphate 5-phosphatase SHIP is a crucial negative regulator of B cell antigen receptor signaling" <i>J. Exp. Med.</i> , 1998, 188(7):1333-1342.	
	R32	LOTZOVA, E. <i>et al.</i> "Prevention of Rejection of Allogeneic Bone Marrow Transplants by NK-1.1 Anti Serum" <i>Transplantation</i> , 1983, 35(5):490-494.	
	R33	LUCAS, D.M. and ROHRSCHEIDER, L. "A novel spliced form of SH2-containing inositol phosphatase is expressed during myeloid development" <i>Blood</i> , 1999, 93(6):1922-1933	
	R34	MOODY, J.L. <i>et al.</i> "Anemia, thrombocytopenia, leukocytosis, extramedullary hematopoiesis, and impaired progenitor function in Pten ^{fl} SHIP ⁺ mice: a novel model of myelodysplasia" <i>Blood</i> , 2004, 103:4503-4510.	
	R35	OVERBAUGH, J. <i>et al.</i> "Molecular cloning of a feline leukemia virus that induces fatal immunodeficiency disease in cats" <i>Science</i> , 1988, 239:906-910.	
	R36	PALU, G. <i>et al.</i> "In pursuit of new developments for gene therapy of human diseases" <i>J. Biotech</i> , 1999, 68:1-13.	
	R37	PIHL-CAREY, K. "Disease drug fails in phase III" <i>BioWorld Today</i> , 1999, 10:1-2.	
	R38	POZNANSKY, M. <i>et al.</i> "Gene transfer into human lymphocytes by a defective human immunodeficiency virus type 1 vector" <i>J. Virol.</i> , 1991, 65:532-536.	
✓	R39	RUGGERI, L. <i>et al.</i> "Role of natural killer cell alloreactivity in HLA-mismatched hematopoietic stem cell transplantation" <i>Blood</i> , 1999, 94(1):333-339.	

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gh	R40	SABIN, A.B. and BOULGER, L.R. "History of Sabin attenuated poliovirus oral live vaccine strains" <i>J. of Biol. Standardization</i> , 1973, 1:115-118.	
	R41	SAMULSKI, R.J. <i>et al.</i> "Helper-free stocks of recombinant adeno-associated viruses: normal integration does not require viral gene expression" <i>J. Vir.</i> , 1989, 63(9):3822-3828.	
	R42	STEPHENS, L.R. <i>et al.</i> "Agonist-stimulated synthesis of phosphatidylinositol(3,4,5)-trisphosphate: a new intracellular signaling system?" <i>Biochim. Biophys Acta</i> , 1993, 1179:27-75.	
	R43	TAMM, I. <i>et al.</i> "Antisense therapy in oncology: new hope for an old idea?" <i>The Lancet</i> , 2001, 358:489-497.	
	R44	TU, Z. <i>et al.</i> "Embryonic and hematopoietic stem cells express a novel SH2-containing inositol 5'-phosphatase isoform" <i>Blood</i> , October 2001, 98(7):2028-2038, available online September 21, 2001.	
	R45	WANG, C.Y. and HUANG, L. "pH-sensitive immunoliposomes mediate target-cell-specific delivery and controlled expression of a foreign gene in mouse" <i>PNAS</i> , 1987, 84:7851-7855.	
	R46	WANG, J-W. <i>et al.</i> "Influence of ZSHIP on the NK Repertoire and Allogeneic Bone Marrow Transplantation" <i>Science</i> , 2002, 295(5562):2094-2097.	
	R47	WOLF, I <i>et al.</i> "Cloning of the genomic locus of mouse SH2 containing inositol 5-phosphatase (SHIP) and a novel 110-kDa splice isoform, SHIPδ" <i>Genomics</i> , 2000, 69(1):104-112.	
	R48	YOKOYAMA, W.M. "Natural killer cell receptors" <i>Current Opin in Immunology</i> , 1998, 10(3):298-305.	
	R49		
	R50		
	R51		
	R52		

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